RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
235 Promenade Street, Providence, RI 02908-5767 TDD 401-222-4462

Sample Application Packet

Request for Preliminary Determination for Soccer Fields

1.) Completed Application Form
2.) Wetland Description
3.) Impact Avoidance & Minimization Statement, Site Description, and Mitigating Measures
4.) Mitigative Plantings
5.) Turf Application Information
6.) Permit
7.) Sample Site Plans (reduced)

The following packet has been designed to help consultants and applicants produce the best possible submissions for the RIDEM Wetlands Program. It is meant to be a good application example, but not the only type of acceptable submission. We have tried to include all elements mandatory to a successful submission, as well as a few other sample items.

Please Note: This sample application packet is for general information purposes only and is not meant to be used as a substitute for the Freshwater Wetlands Act or the *Rules and Regulation Governing the Administration and Enforcement of the Freshwater Wetlands Act*.

Office of Water Resources
January 2002

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES\PERMITTING PROGRAM

235 Promenade Street, Providence, RI 02908
Telephone: 401-222-6820, Telecommunication Device for the Deaf: 401-222-6800

APPLICATION FORM

Please type or print

AGENCY USE ONLY
Application No.:

AGENCY USE ONLY
Application Received:

PART A Purpose of Application:

- ☐ Request to Determine Presence of Wetlands only (see Rule 9.02(B))
- ☐ Request to Verify Delineated Edge of Wetlands (see Rule 9.02)
- ☒ Request for Preliminary Determination (see Rule 9.03)
- ☐ Application to Alter a Freshwater Wetland (see Rule 9.05)
- ☐ Application For Renewal (see Rule 9.07)
- ☐ Application for Permit Transfer (see Rule 9.08)
- ☐ Application For Permit Modification (see Rule 9.09)
- ☐ Change in Owner During Application Processing (see Rule 8.06)

PART B Applicant Information:

- Name of Applicant (see Rules 5.06 and 8.02): Town of Anytown
  Note: The applicant must be the owner of the property or easement which is the subject of this application or must be the government agency or entity with power of condemnation over such property or easement.
- Mailing Address of Applicant: 123 East Main Rd (Street/Road) (P.O. Box)

Anytown (City/Town) RI (State) 01234 (Zip Code) 222-3333 (Telephone No.)

- Location of Property subject to this Application:

Anytown (City/Town) Rolling Road (Street Abutting Site) (Street address number (if applicable))

Rolling & Smith 2400' West
Nearest street intersection and its distance and direction from site

Nearest utility pole number(s): UP #XX Direction to site from abutting street: N X S ____ E ____ W ____

Tax Assessor's Plat(s) and Lot No.(s): AP XXX LOTS XXX-XXX

Recorded Plat (s) and Lots No.(s) (if no Tax Assessor Plat and Lots available): Plat X Lot X

PART C General Information:

- Any previous application for this site? Yes ___ No X Provide Application No.(s) ____
- Any previous enforcement action for this site? Yes ___ No X Provide File No(s) ____
- Amount of wetland area to be altered (if applicable, see Rules 8.03, 8.04):
  square feet: ____ *linear feet (if watercourse)*: 150'
- Amount of fee submitted for Application (see Rules 8.03, 8.04): $ 510.00 Check No. 1007

PART D For Application Renewal Only:

- Name of Original or Subsequent Permittee: ____
- Application/Permit No. ____ Permit Expiration Date: ____
- Number of previous renewals issued (if applicable): ____
- **Statement of Applicant**: I hereby state that I am requesting renewal of the original or subsequently modified permitted project under Application/Permit No. ____. I fully understand the permit limitations and will comply with any and all conditions of the permit.
- Applicant's name: (*print*) ____ (*signature*) ____

PART E **For Application For Permit Transfer Only**:

- Name of Original Permittee: _____
- Application/Permit No. _____ Permit Expiration Date: _____

Note: A certified copy of the deed of transfer must be enclosed with application.

- **Statement of Applicant**: I hereby certify that I have reviewed the permit letter issued under Application/Permit No. _____ and hereby agree to comply with all conditions of the permit, including any time limitations imposed.
- Applicant's name: (*print*)_____ (*signature*)_____ Date:_____
  Subscribed and sworn before me this _____ day of _____, 19___.

Notary Public
My Commission expires:_____

PART F **For Change in Owner During Application Processing Only**:

- Name of Original Applicant:_____ Application No. _____

Note: A certified copy of the deed of transfer must be enclosed for Applications to Alter only.

PART G **Certification of Professional(s)** (if applicable): *Note: Any professional (e.g. engineer, biologist, landscape architect, etc.) who participated in the submission and/or preparation of this Application and supporting documentation must sign below.*

- I hereby certify that I have been authorized by the applicant to prepare documentation to be submitted in support of this Application; that such documentation is in accordance with the *Rules and Regulations Governing the Administration and Enforcement of the Freshwater Wetlands Act*; and that such documentation is true, accurate and complete to the best of my knowledge.

- Name of professional (*print*): William Brown Title: Town Engineer
  Address: 12 Field Rd., Anytown, RI d/b/a: William Brown, Civil Engineer
  Signature of professional: William Brown Date: 1-17-02

If more than one professional:

- Name of professional (*print*): Sally Jones Title: Biologist
  Address: 19 Wetland Way, Anytown, RI d/b/a: Wetlands Are Us
  Signature of professional: Sally Jones Date: 1-17-02

- Name of professional (*print*):_____ Title:_____
  Address:_____ d/b/a:_____
  Signature of professional: _____ Date:_____

- Name of professional (*print*):_____ Title:_____
  Address:_____ d/b/a:_____
  Signature of professional: _____ Date:_____

PART H **Certification of Applicant**:

- I hereby certify that I have requested and authorized the investigation, compilation, and submission of all the information, in whatever form, contained in this Application; that I have personally examined and am familiar with the information submitted herein; and that such information is true, accurate and complete to the best of my knowledge.

- **See Rule 8.02 regarding Signatories to Applications**

Signature of Applicant: Mike Jones Title (if applicable): Town Administrator

Print Name Signed Above: Mike Jones Date: 1-17-02

Wetland Description

Wetlands Are Us

PO Box 123
Anytown, RI 12345
401-123-4567

January 17, 2002

William Brown
Department of Public Works and Recreation
Town Hall
12 Field Road
Anytown, RI 01234

RE: Letter of Findings, Rolling Road, Plat xxx, Lots xxx, xxx & xxx, Anytown, Rhode Island

Dear Mr. Brown:

Wetlands Are Us (WAS) has completed the freshwater wetland delineations for the above referenced property. This field delineation was done in accordance with the Rhode Island Fresh Water Wetlands Act (R.I.G.L. 2-1-18 et. seq.). All delineations performed by WAS are subject to verification from the Rhode Island Department of Environmental Management (DEM).

The subject property is located on the northern side of Rolling Road, on Plat xxx, Lots xxx, xxx and xxx, in Anytown, Rhode Island. WAS has field delineated a single area of freshwater wetland, as well as two (2) centerlines of a drainage channel, on the subject property.

The identified wetland, represented by WAS flag series A1 – A24, would be classified as a marsh wetland complex. This marsh occurs in the northwestern portion of the property and would appear to maintain seasonally flooded water regime.

The first drainage channel is represented by WAS flag series CL1 – CL4. This channel would be classified as an Area Subject to Storm Flowage (ASSF). It begins east of the western property boundary and flows westward into the marsh. It is mostly void of vegetation due to past land-use activities.

The second drainage channel is represented by WAS flag series CL1A – CL11A. This channel is also classified as an ASSF and occurs along the entire southern property boundary, along the Rolling Road frontage. This ASSF receives excess stormwater runoff resulting from Rolling Road.

The Rhode Island Soil Survey (USDA, 1981) depicts the marsh to be underlain by a Stissing silt loam (Se). This nearly level, poorly drained soil is on glacial upland hills and drumlins in the south-eastern part of the State. The seasonal high water table and the slow permeability in the substratum makes this soil type poorly suited for community development.

Vegetation occupying the wetland areas consisted of a wide variety in all structural layers of the habitat. Predominant tree species in the perimeter wetlands and outer portion of the marsh complex include red maple (*Acer rubrum*), white pine (*Pinus strobus*), and gray birch (*Betula populifolia*). Saplings all consisted of the same dominant species.

The shrub level is dominated by willow species (*Salix spp*.), speckled alder (*Alnus rugosa*), and highbush blueberry (*Vaccinium corymbosum*).

The large marsh portion of this wetland complex contains emergent vegetation including but not limited to cattail (*Typha latifolia*), sedges (*Carex spp*.), rushes (*Juncus spp*.), and several grasses (*Gramineae*).

This is by no means an inclusive list, but rather a sampling of vegetative species commonly observed within the overstory, understory and herbaceous layers.

The area of upland habitat consists of field and shrub habitat. Vegetation observed within the upland areas includes Bayberry, Multiflora Rose, Bindweed, Narrow-leafed Goldenrod, Timothy, Curled Dock and several other field grass species.

Wildlife Indicators

Many field visits revealed a significant number of signs indicating a wide variety of wildlife utilizing the area. Most evidence of wildlife was restricted to areas within or immediately adjacent to the wetland areas. The site contains numerous species of songbirds evidenced by either direct observation or identification by associated song. Other notable bird species observed within the site included Ruffed grouse (*Bonasa umbellus*), Pheasant (*Phasianus colchicus*), Red-winged blackbirds (*Agelains phoeniceus*), and most notably in an area north of he project site, a Pileated woodpecker (*Hylatomus pileatus*). Several species of duck were also observed within flooded portions of the marsh. These ducks included mallard (*Anas platyrhynchos*), black duck (*Anus rubripes*), and wood duck (*Aix sponsa*).

Due to the variety of habitats found within the wetland areas, it is anticipated that numerous mammals occupy the areas. Direct evidence was found for the following species: White tailed deer (*Odocoileus virginiana*), raccoon (*Procyon lotor*), mink (*Mustela vison*), muskrat (*Ondatra zibethicus*), squirrel (*Sciurus carolinensis*), chipmunk (*Tamias striatus*), red fox (*Vulpes fulva*), and cottontail rabbit (*Sylvilagus floridans*). In addition many signs of smaller mammals of the rodent family were evidenced at the site.

It is anticipated that most of the wetlands provide year-round habitat for amphibians and reptiles, although none were directly observed in the field.

Under current regulations, a 50-foot jurisdictional setback will be applied to the determined edge of the marsh complex. This setback is classified as a 50-foot perimeter wetland. There will be no setback applied to the ASSF. All setbacks must be accurately depicted on all site plans submitted to the DEM for review. Any proposed construction within the perimeter wetland, or any wetland feature, will be subject to permitting from the DEM.

In addition, it should be noted that this marsh is hydrologically connected to the King River, which occurs off-site to the west. This river, according to the Rhode Island Resource Protection Water Supply Resources Map (EPA, RIGIS, 1997) is a tributary to a public water drinking supply. It also shows the entire subject property to fall within this surface water reservoir watershed. Therefore, if any septic systems are proposed as part of this project, there will be a 200 foot Individual Sewage Disposal System (ISDS) setback applied to the edge of the marsh. Any portion of a leaching field which is proposed within this 200 foot ISDS setback will require extensive permitting from the DEM.

Please contact our office should you have any questions or require additional information.

Very truly yours,

Sally Jones

Sally Jones
Wetland Biologist

Avoidance & Minimization, Site Description, and Mitigating Measures

Town of Anytown

Town Hall
12 Field Road
Anytown, RI 01234

Narrative of construction and mitigating measures

Town of Anytown
Rolling Road Soccer Fields

EXISTING SITE CONDITIONS

As shown on the attached Quad map, this 14 acre site within the King River watershed, is slightly sloping (2%); portions are well vegetated and a portion is an old sand/gravel borrow area. Presently there is sheet flow overland to a drainage swale (an area which has been identified as an Area Subject to Storm Flowage - ASSF). The King River is approximately 600' west of this property. The King River is the main tributary feeding Anytown Water Department's George and Mary's Pond reservoir facility.

PROPOSED SITE ALTERATIONS

The Town of Anytown is proposing to construct 3 level areas that will be used for parking, a subdrain system, and an emergency access drive affiliated with a youth soccer facility. The present proposal also includes a future storage-concession-bathroom building and septic system. Subdrains are proposed around the septic system to lower the groundwater table. After the groundwater table is lowered, an application will be submitted to the Individual Sewage Disposal System section for groundwater table verification. Therefore, the specific use of the proposed building can not be determined until after the effectiveness of the subdrain system is monitored. Portable bathroon facilities will be made available until such time that an on-site septic system is approved by DEM and constructed.

ANTICIPATED IMPACTS

Potential significant impacts to the wildlife utilizing the area stem from the alteration of areas adjacent to the wetlands and altering a portion of the ASSF that flows into the marsh. Although some of the areas within a short distance of these wetlands contain only sparse and lightly vegetated sand and gravel areas, those vegetated areas that are associated with the wetlands become important in terms of wildlife habitat and movement.

Based on the proposed plans there is one area in particular that will be directly impacted by the proposed park development. This includes construction within a portion of the ASSF, which flows into the marsh complex. One additional area of potential impacts involves construction

adjacent to the perimeter wetlands. No direct filling of wetlands other than a portion of the ASSF is proposed for any portion of this proposal.

Of all the wetlands located on site, the ASSF parallel to the road is the most impacted and serves mostly as a roadside drainage swale. Due to the lack of woody vegetation associated with both ASSFs, no mitigation other than implementation of sediment and erosion controls are necessary.

Other impacts to wildlife may result from the nuisance effect of activity associated with the use of the area as a recreational area. There can potentially be some positive wildlife impacts from the development of the site as well. The development of the sand/gravel borrow area on-site, which is currently devoid of any vegetation, into a large open grassed area may provide an enhanced food source (i.e. insects) for songbirds. Maintenance of vegetative buffers around playing areas as well as wetlands will provide and protect good nesting and rearing habitat areas for songbirds and cover for small mammals.

MITIGATING MEASURES

Most of the direct impacts to wetlands will center on alterations to the currently disturbed Areas Subject to Storm Flowage. Culverts are sized large enough to allow use by most of the small mammals likely to be utilizing the roadside Area Subject to Storm Flowage as travel corridors. Based on existing conditions, it was not deemed necessary to employ bridges or box culverts for crossing the roadside Area Subject to Storm Flowage. This wetland is already disturbed and two crossings already exist, which shall be reused and upgraded. The culverts and access roads will not likely inhibit the larger mammals such as deer, fox, and raccoons.

The portion of the Area Subject to Storm Flowage entering the marsh complex, which shall be disturbed, is also relatively void of vegetation due to past on-site activities. Loss of approximately 150 linear feet of this wetland is not expected to result in significant wetland impacts. The surface water volume draining into this portion of the Area Subject to Storm Flowage is very minor as evidenced by the depth of the channel (two inches) and the channel width (less than one foot). Due to the lack of vegetation, wildlife use is minimal. The quality of runoff from this Area Subject to Storm Flowage to the wetland is expected to improve as a result of this project since the disturbed ground from the sand/gravel borrow area will be stabilized with turf. Chemical application to the turf will be within State and Federal guidelines and restrictions. With the exception of the area subject to storm flowage, areas proposed for construction that are adjacent to wetlands already contain a dense buffer of vegetation native to the area including evergreens. This existing vegetation will serve to screen the activity on the playground and recreational areas from the wetland areas. Since the perimeter wetland is thickly vegetated with trees and shrubs including evergreens, installation of additional plants at the limits of disturbance is not deemed necessary.

Lighting of the athletic fields is not proposed. Since wildlife behavior is highly affected by the diurnal cycle, artificial lighting is not part of this project, so as to minimize impacts.

The drainage system has been designed to lower the water table and dispose of surface runoff. Prior to discharging into the Area Subject to Storm Flowage, all of the water will pass through a catch basin with a 3' sump and then through a level reach of pipe. The 3' sump will trap sediment and the level section will reduce velocities. The outlets of each pipe will be protected with an anti scouring skirt that will further reduce scouring and direct the water tangentially into

the Area Subject to Storm Flowage. Three areas to the north of the fields will pass over a grassed area prior to entering into the pipe system, and thus will reduce sediment transport. The original design tried to use grassed swales as a means of sediment reduction. However, due to the large level areas, the grades could not be made to work and still achieve the project goal. An additional culvert will be added at the exit driveway, thus reducing velocities within the area subject to storm flowage.

Prior to any excavation a sediment barrier will be installed. Slopes within the site have been limited to 3 horizontal to one vertical, which will eliminate any chance of erosion after the site is stabilized with a grassy cover, and greatly reduce erosion during construction.

ADDITIONAL IMPACT MINIMIZATION MEASURES

Design alternatives were considered for the access roads into the site for this project. The balance between public safety and minimization of impacts to wetlands were a high priority. The proposed design reflects, in our opinion, the best balance between these two important objectives.

As a result, it was determined that utilization of the existing dirt roads crossing the ASSF would be the best way to access the site.

The contractor employed in the construction of this project will be directed to remove all debris that currently lies in the ASSF and perimeter wetland. This litter consists primarily of discarded automobile tires and woody debris. The contractor will be directed to remove these items by hand in order to minimize disturbance of the wetland. In addition, the contractor will be asked to remove by hand operations all dead and leaning branches and trees from the overall site. Where this removal lies within any jurisdictional wetlands, the impact on adjacent wetlands will be carefully considered. Trees showing evidence of woodpecker or other wildlife habitat or activity will be left intact. Only trees and limbs posing a direct threat to human safety shall be removed within wetland areas in accordance with *Rule 6.02*.

The design was prepared to avoid as much of the wetlands present on site as possible. Through a slight modification to the northern portion of the large western field, the perimeter wetland and marsh complex were completely avoided. The presence of dense evergreen and deciduous vegetation in the perimeter wetland serves as an excellent buffer from the proposed development and adjacent wetland resources. Encroachment of the ASSF flowing to the marsh complex is not expected to have any detrimental impact to wetland functions and values as noted above. In fact, water quality should be improved with regards to the elimination of sediment transport from the adjacent disturbed areas to the marsh complex. Extreme care shall be taken to ensure fertilizers, herbicides and pesticides are applied in accordance with Federal and State Regulations to avoid off site impacts.

Town Engineer,
William Brown

Mitigative Plantings

(Necessary if the wetland was not surrounded by a dense stand of woody, evergreen vegetation)

Wetland areas provide an important resource as wildlife habitat travel corridors, especially when water courses are present. To mitigate the effects of clearing and to minimize impacts within the currently unvegetated perimeter and/or riverbank wetlands, this proposal would call for plantings of species natural to the area. These plantings will help minimize any impacts to wildlife as well as providing screening between project features such as roadways, picnic areas and playing fields, and the wetlands themselves. The mitigative plantings proposed in this application include:

Common Name	**Latin Name**
Eastern White Pine	*Pinus strobus*
Eastern Red Cedar	*Juniperus virginiana*
Pussy Willow	*Salix discolor*
Highbush Blueberry	*Vaccinium corymbosum*
Northern Wild Raisin	*Viburnum cassinoides*
Sweet Pepperbush	*Clethra alnifolia*
Redosier Dogwood	*Cornus sericea*
Winter Red Winterberry	*Ilex verticillata 'Winter Red'*

These plantings will be utilized along the proposed limits of disturbance adjacent to all wetlands located on-site. Pine trees will alternate in a staggered double row and be installed 10 feet on center, and no less than 4 feet in height after planting. All shrubs will be installed 5 feet on center in equal distribution and be no less than 3 feet in height after planting.

Turf Application Information

Toll Free 1-800-333-4444
Local 1-401-444-5555

1212 Main Road
Anytown, RI 012234

George's TURF MANAGEMENT, INC.

PROPOSAL

William Brown
Anytown Town Hall
12 Field Road
Anytown, RI 01234

ROLLING ROAD COMPLEX

3 SOCCER FIELDS – TOTAL PLAYING SURFACE – 8.44 ACRES:
Fertilization will take place on playing surfaces; none applied to banks, swales or drain areas

METHOD OF APPLICATION:
Rotary spreader on tractor with 3-point hitch

TYPE OF FERTILIZER:
Granular

FIRST APPLICATION:
18-24-18 45% slow release nitrogen
(4 week window after application)

SECOND APPLICATION (5TH WEEK):
21-3-21 67% slow release nitrogen
(5-6 week window after application)

APPLICATION RATE – 1 POUND OF NITROGEN PER 1,000 SQUARE FEET:
Lime with seeding
Recommend: 8.25 tons of pelletized lime on playing turf

_____ _____
SUBMITTED BY DATE

_____ _____
ACCEPTED BY DATE

RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
235 Promenade Street, Providence, RI 02908-5767 TDD 401-222-4462

Permit

February 16, 2002

Michael Jones
Town of xxx
12 Field Road
Anytown, RI 01234

Insignificant Alteration – Permit

RE: Application No. 02-xxxx in reference to the property and proposed project located:

Approximately 300 feet north of Rolling Road, approximately 2000 feet east northeast of its intersection with Bark Avenue, Assessor's Plat xxx, Lots xxx-xxx, Anytown, RI.

Dear Mr. Jones:

Kindly be advised that the Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of your **Request for Preliminary Determination** application. This review included a site inspection of the above referenced property ("subject property") and an evaluation of the proposed recreational fields with roads, parking facilities, drainage structures, a sewage disposal system and concession stand as illustrated and detailed on site plans submitted with your application. These site plans were received on December 6, 2001.

Our observations of the subject property, review of the site plans and evaluation of the proposed project reveals that alterations of freshwater wetlands are proposed. However, pursuant to Rule 9.03 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act (Rules), this project may be permitted as an **insignificant alteration** to freshwater wetlands under the following terms and conditions:

Terms and Conditions for Application No. 02-xxxx:

1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, Rhode Island General Laws (RIGL) Section 2-1-18 et seq.

2. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and received by the DEM on December 6, 2001. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project which would alter freshwater wetlands are not authorized without a permit from the DEM.

1. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.

2. You must notify this Program in writing immediately prior to the commencement of site alterations and upon completion of the project.

3. A copy of the stamped approved site plans and a copy of this permit must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this permit and the stamped approved plans must made available for review by any DEM representative upon request.

4. Within ten (10) days of the receipt of this permit, you must record this permit in the land evidence records of the Town of Anytown and supply this Program with written documentation obtained from the Town showing this permit was recorded.

5. The effective date of this permit is the date this letter was issued. This permit expires four (4) years from the date of issue.

6. Any material utilized in this project must be clean and free of matter, which could pollute any freshwater wetland.

7. Prior to commencement of site alterations, you shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials “DEM” and the application number of this permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete.

8. Temporary erosion and sediment controls detailed or described on the approved site plans shall be properly installed at the site prior to or commensurate with the site alterations. Such controls shall be properly maintained, replaced, supplemented, or modified as necessary throughout the life of this project to minimize soil erosion and to prevent sediment from being deposited in any wetlands not subject to disturbance under this permit.

9. Upon permanent stabilization of all disturbed soils, temporary erosion and/or sediment controls consisting of silt fence, if used, must be removed.

10. You are obligated to install, utilize and follow all best management practices detailed or described on the approved site plans in the construction of the project to minimize or prevent adverse impacts to any adjacent freshwater wetlands and the functions and values provided by such wetlands.

Please be advised that due to the fact that the site is within the watershed of a drinking water supply reservoir, pursuant to SD 3.05 *of the ISDS Rules*, a 200 foot horizontal

separation is required between any drain which is tributary to surface water supplies or tributaries. Thus, the future ISDS site falls within this area of concern and does not meet standard ISDS regulations. A variance for this ISDS will be required.

This permit is valid for the original applicant only and is not transferable to another person unless the new owner completes and submits an **Application for Permit Transfer** in accordance with Rule 9.08.

You are required to comply with the terms and conditions of this permit and to carry out this project in compliance with the Rules at all times. Failure to do so may result in an enforcement action by this Department.

In permitting the proposed alterations, the DEM assumes no responsibility for damages resulting from faulty design or construction.

This permit does not remove your obligation to obtain any local, state, or federal approvals or permits required by ordinance or law and does not relieve you from any duties owed to adjacent landowners with specific reference to any changes in drainage.

Please contact Jack Johnson of this office (telephone 401-222-4700) should you have any questions regarding this letter.

Sincerely,

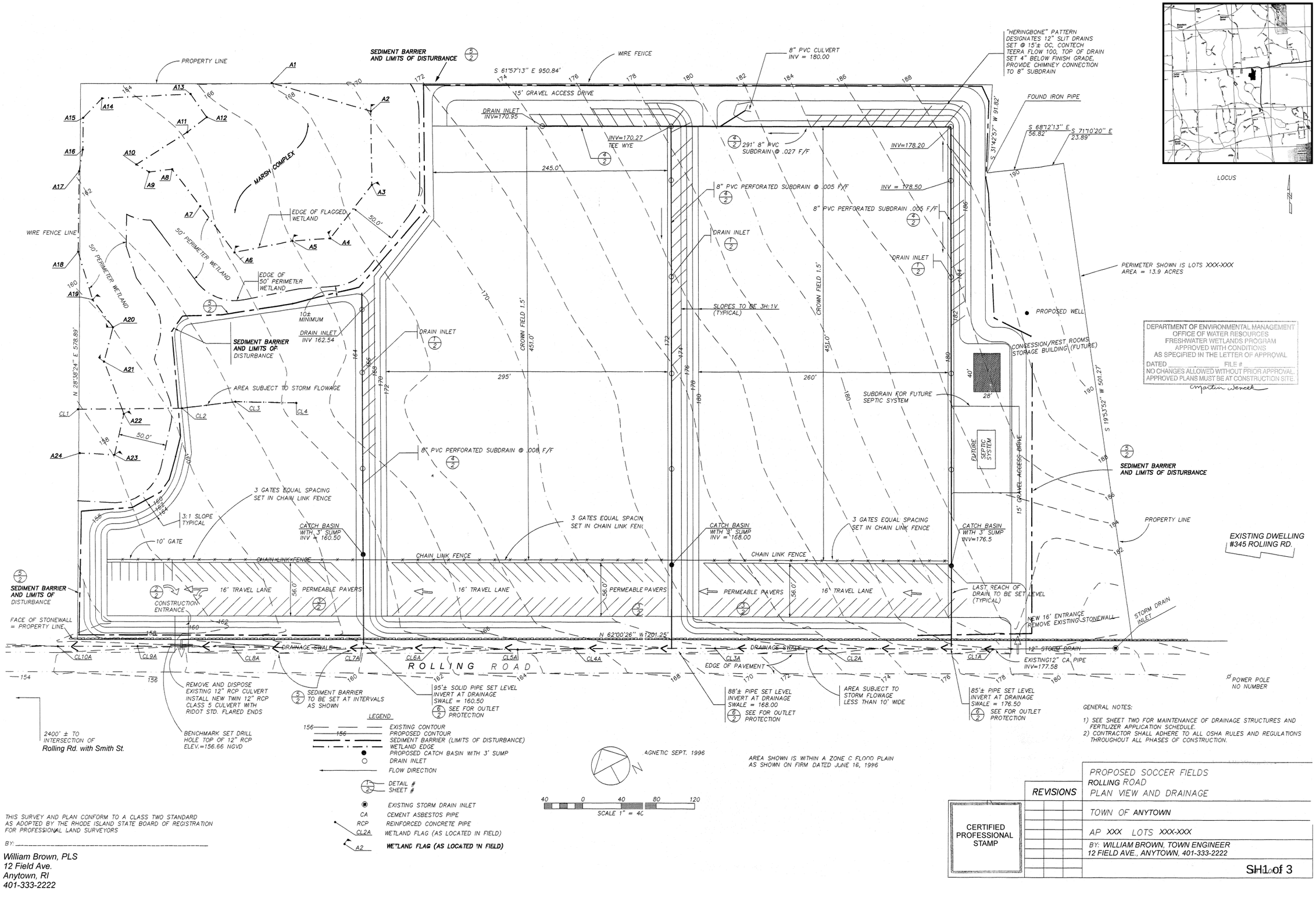
Martin Wencek

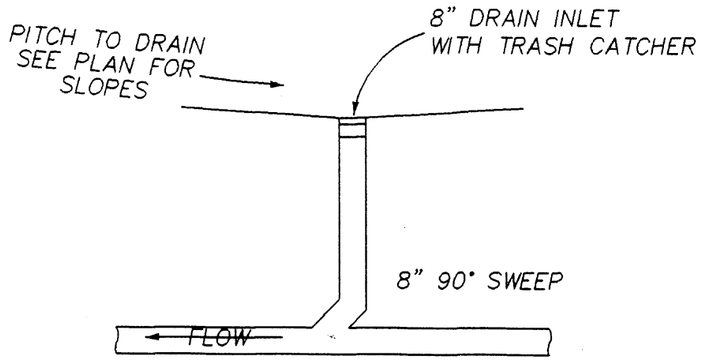
Martin D. Wencek, Permitting Supervisor
Office of Water Resources/Permitting Section
Freshwater Wetlands Program

MDW/cam

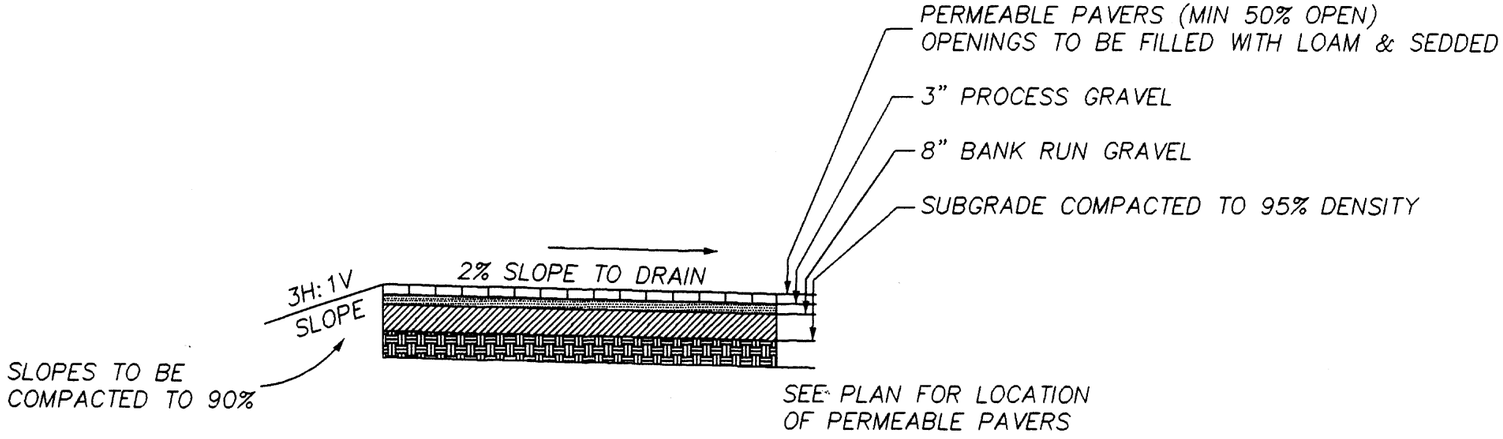
Enclosure: Approved site plans

xc: William Brown, Anytown Town Engineer
Sally Jones, Wetlands Are Us
RIDEM ISDS Program


PROPERTY LINE
SEDIMENT BARRIER AND LIMITS OF DISTURBANCE
WIRE FEIICE
S 61°57'13" E 950.84'
8" PVC CULVERT INV = 180.00
"HERINGBONE" PATTERN DESIGNATES 12" SLIT DRAINS SET @ 15'± OC, CONTECH TEERA FLOW 100, TOP OF DRAIN SET 4" BELOW FINISH GRADE, PROVIDE CHIMNEY CONNECTION TO 8" SUBDRAIN
15' GRAVEL ACCESS DRIVE
FOUND IRON PIPE
S 68°12'13" E 56.82'
S 71°10'20" E 23.89'
S 31°42'57" W 91.82'
DRAIN INLET INV=170.95
INV=170.27 TEE WYE
291' 8" PVC SUBDRAIN @ .027 F/F
INV=178.20
245.0'
8" PVC PERFORATED SUBDRAIN @ .005 F/F
INV = 178.50
8" PVC PERFORATED SUBDRAIN .005 F/F
DRAIN INLET
DRAIN INLET
PERIMETER SHOWN IS LOTS XXX-XXX
AREA = 13.9 ACRES
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
MARSH COMPLEX
EDGE OF FLAGGED WETLAND
50.0'
WIRE FENCE LINE
50' PERIMETER WETLAND
EDGE OF 50' PERIMETER WETLAND
10± MINIMUM
DRAIN INLET INV 162.54
SEDIMENT BARRIER AND LIMITS OF DISTURBANCE
N 28°38'24" E 578.89'
AREA SUBJECT TO STORM FLOWAGE
CL1
CL2
CL3
CL4
50.0'
CROWN FIELD 1.5'
451.0'
295'
260'
SLOPES TO BE 3H:1V (TYPICAL)
CROWN FIELD 1.5'
451.0'
PROPOSED WELL
CONCESSION/REST ROOMS STORAGE BUILDING (FUTURE)
40'
28'
SUBDRAIN FOR FUTURE SEPTIC SYSTEM
FUTURE SEPTIC SYSTEM
15' GRAVEL ACCESS DRIVE
S 19°53'52" W 501.27'
SEDIMENT BARRIER AND LIMITS OF DISTURBANCE
PROPERTY LINE
EXISTING DWELLING #345 ROLLING RD.
8" PVC PERFORATED SUBDRAIN @ .008 F/F
3 GATES EQUAL SPACING SET IN CHAIN LINK FENCE
3:1 SLOPE TYPICAL
10' GATE
CATCH BASIN WITH 3' SUMP INV = 160.50
3 GATES EQUAL SPACIN SET IN CHAIN LINK FEN
CATCH BASIN WITH 3' SUMP INV = 168.00
3 GATES EQUAL SPACING SET IN CHAIN LINK FENCE
CATCH BASIN WITH 3' SUMP INV=176.5
CHAIN LINK FENCE
CHAIN LINK FENCE
CHAIN LINK FENCE
SEDIMENT BARRIER AND LIMITS OF DISTURBANCE
16' TRAVEL LANE
56.0'
PERMEABLE PAVERS
16' TRAVEL LANE
56.0'
PERMEABLE PAVERS
PERMEABLE PAVERS
56.0'
16' TRAVEL LANE
LAST REACH OF DRAIN TO BE SET LEVEL (TYPICAL)
CONSTRUCTION ENTRANCE
FACE OF STONEWALL = PROPERTY LINE
NEW 16' ENTRANCE REMOVE EXISTING STONEWALL
STORM DRAIN INLET
N 62°00'26" W 201.25'
DRAINAGE SWALE
DRAINAGE SWALE
12" STORM DRAIN
EXISTING12" CA. PIPE INV=177.58
CL10A
CL9A
CL8A
CL7A
CL6A
CL5A
CL4A
CL3A
CL2A
CL1A
ROLLING ROAD
EDGE OF PAVEMENT
POWER POLE NO NUMBER
REMOVE AND DISPOSE EXISTING 12" RCP CULVERT INSTALL NEW TWIN 12" RCP CLASS 5 CULVERT WITH RIDOT STD. FLARED ENDS
SEDIMENT BARRIER TO BE SET AT INTERVALS AS SHOWN
95'± SOLID PIPE SET LEVEL INVERT AT DRAINAGE SWALE = 160.50
SEE FOR OUTLET PROTECTION
88'± PIPE SET LEVEL INVERT AT DRAINAGE SWALE = 168.00
SEE FOR OUTLET PROTECTION
AREA SUBJECT TO STORM FLOWAGE LESS THAN 10' WIDE
85'± PIPE SET LEVEL INVERT AT DRAINAGE SWALE = 176.50
SEE FOR OUTLET PROTECTION
2400' ± TO INTERSECTION OF Rolling Rd. with Smith St.
BENCHMARK SET DRILL HOLE TOP OF 12" RCP ELEV.=156.66 NGVD
LEGEND
EXISTING CONTOUR
PROPOSED CONTOUR
SEDIMENT BARRIER (LIMITS OF DISTURBANCE)
WETLAND EDGE
PROPOSED CATCH BASIN WITH 3' SUMP
DRAIN INLET
FLOW DIRECTION
DETAIL # SHEET #
EXISTING STORM DRAIN INLET
CA CEMENT ASBESTOS PIPE
RCP REINFORCED CONCRETE PIPE
CL2A WETLAND FLAG (AS LOCATED IN FIELD)
A2 WETLAND FLAG (AS LOCATED IN FIELD)
AGNETIC SEPT. 1996
N
40 0 40 80 120
SCALE 1" = 40'
AREA SHOWN IS WITHIN A ZONE C FLOOD PLAIN AS SHOWN ON FIRM DATED JUNE 16, 1996
LOCUS
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # _____
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Martin Wenck
GENERAL NOTES:
1) SEE SHEET TWO FOR MAINTENANCE OF DRAINAGE STRUCTURES AND FERTILIZER APPLICATION SCHEDULE.
2) CONTRACTOR SHALL ADHERE TO ALL OSHA RULES AND REGULATIONS THROUGHOUT ALL PHASES OF CONSTRUCTION.
THIS SURVEY AND PLAN CONFORM TO A CLASS TWO STANDARD AS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS
BY: _____
William Brown, PLS
12 Field Ave.
Anytown, RI
401-333-2222
CERTIFIED PROFESSIONAL STAMP
REVISIONS
PROPOSED SOCCER FIELDS
ROLLING ROAD
PLAN VIEW AND DRAINAGE
TOWN OF ANYTOWN
AP XXX LOTS XXX-XXX
BY: WILLIAM BROWN, TOWN ENGINEER
12 FIELD AVE., ANYTOWN, 401-333-2222
SH1 of 3

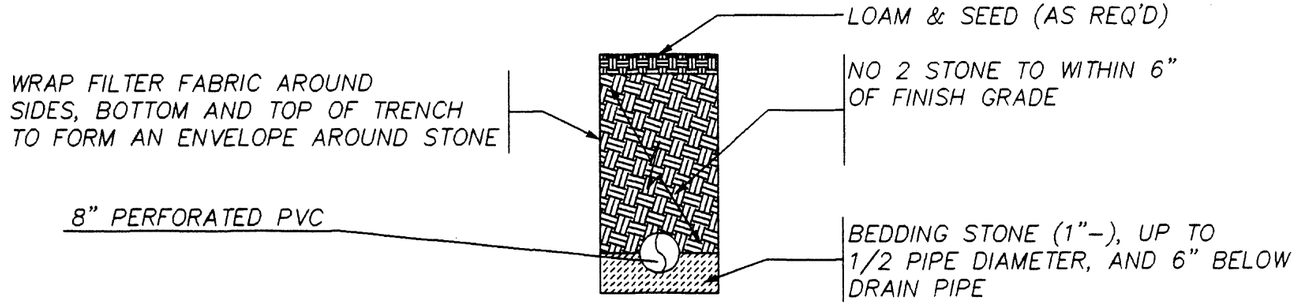


1/2 DETAIL @ DRAIN INLET
(1/4)



3/2 CROSS SECTION THRU PERMEABLE PAVERS
(1/4)

2/2 CROSS SECTION @ CONSTRUCTION ENTRANCE
(1/4"=1'-0")



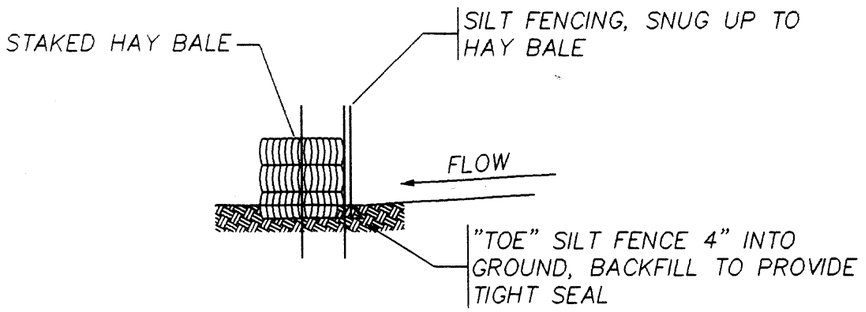
4/2 PERFORATED DRAIN TRENCH
(1/4"=1'-0")

FILTER FABRIC TO BE NON WOVEN AS
MANUFACTURED BY TERRA TEX TYPE
NO4

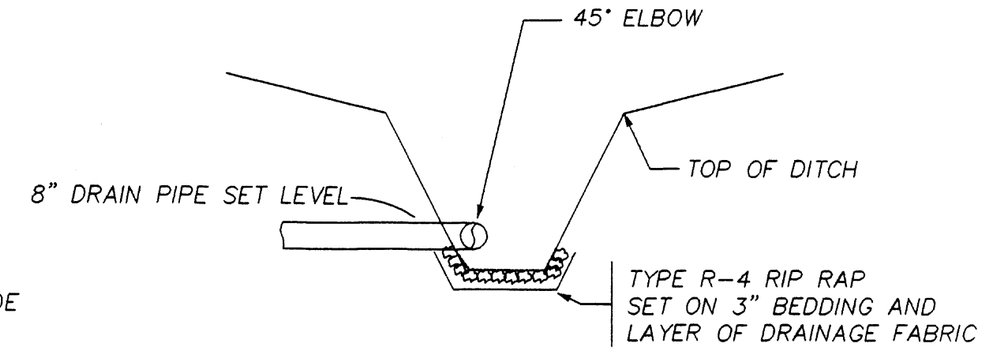
Certified Professional Stamp

REVISIONS

PHASE ONE PROPOSED SOCCER FIELDS
DETAIL SHEET
TOWN OF ANYTOWN
AP XXX LOTS XXX-XXX
BY: WILLIAM BROWN, TOWN ENGINEER
12 FIELD AVE., ANYTOWN, RI 401-333-2222



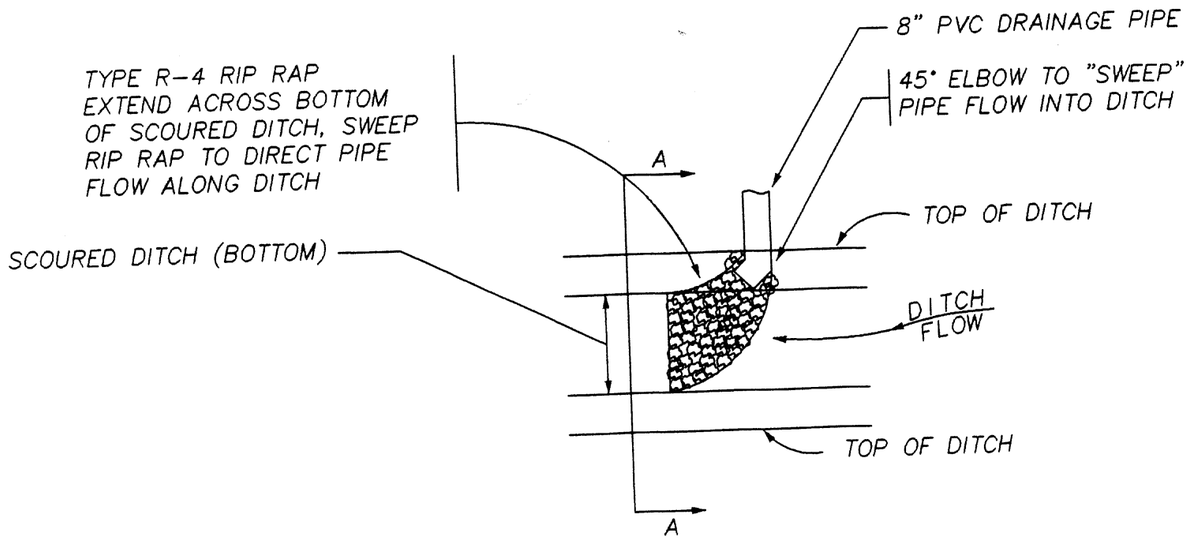
5/2 SEDIMENT BARRIER
1/4"



A-A

GENERAL NOTES:

1) SEDIMENT BARRIER SHALL BE INSTALLED PRIOR TO ANY EXCAVATION WORK.
2) SEDIMENT BARRIER SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE SITE CONTRACTOR.
3) SEDIMENT SHALL BE REMOVED AFTER A MINIMUM OF 3 MOWINGS OF THE ESTABLISHED COVER.



6/2 OUTLET PROTECTION DETAIL
(1/4)

FERTILIZER SCHEDULE:

THIS SCHEDULE HAS BEEN SUPPLIED TO THE TOWN BY McGEOUGH'S TURF MANAGEMENT, INC. 3805 MAIN RD. TIVERTON, RI

FERTILIZATION WILL TAKE PLACE ON PLAYING SURFACES; NONE APPLIED TO BANKS, SWALES OR DRAIN AREAS

METHOD OF APPLICATION:
ROTARY SPREADER OF TRACTOR WITH 3 POINT HITCH

TYPE OF FERTILIZER:
GRANULAR

FIRST APPLICATION:
18-24-18 45% SLOW RELEASE NITROGEN
(4 WEEK WINDOW AFTER APPLICATION)

SECOND APPLICATION:
21-3-21 67% SLOW RELEASE NITROGEN
(5-6 WEEK WINDOW AFTER APPLICATION)

APPLICATION RATE--1 POUND OF NITROGEN PER 1000 SQUARE FEET:
LIME WITH SEEDING
RECOMMEND: 1 TON OF PELLETIZED LIME PER ACRE ON PLAYING TURF

CATCH BASIN MAINTENANCE SCHEDULE:

CATCH BASIN SUMPS WILL BE VACUUMED CLEAN OF ALL SEDIMENT PRIOR TO FIRST APPLICATION OF FERTILIZER EVERY YEAR

CATCH BASINS WILL BE CLEANED AFTER CONSTRUCTION IS COMPLETED

SEDIMENT BARRIER WILL BE MAINTAINED THROUGH 3 CUTTINGS OF THE ESTABLISHED GRASS AREAS.

Certified Professional Stamp	REVISIONS	PHASE ONE PROPOSED SOCCER FIELDS DETAIL SHEET TOWN OF ANYTOWN AP XXX LOTS XXX-XXX BY: WILLIAM BROWN, TOWN ENGINEER 12 FIELD AVE., ANYTOWN, RI 401-333-2222 SH2 of 3